

ABSTRACT

Disclosed is an apparatus for coherent combining type demodulation and method thereof, in which a multi-path reception signal is demodulated by a coherent combining method in case that a transmitted signal, which was spread and modulated by such an orthogonal code as Walsh code, is received via multi-paths in the course of transmission and by which loss is more reduced than that of modulation of a non-coherent combining method. The modulation according to the coherent combining method needs a pilot signal. Yet, there exists no pilot signal on a reverse link of IS-95A. Hence, the present invention basically generates a phase reference signal or a decision directed pilot signal instead of the pilot signal to perform coherent combining using the phase reference signal or the decision directed phase signal.